Fourier-analytic expressions that may be unfamiliar to a first-year calculus student. It would help the reader to be familiar at least with multivariable calculus and perhaps a bit of differential equations. The ideal reader is someone keenly interested in engineering-oriented mathematics or physics, or simply a scientifically curious mathematician who likes to see results explained in their historical context.

**Beautiful Symmetry**

*A Coloring Book about Math*

by Alex Berke

with a Foreword by Alex Bellos

*Beautiful Symmetry* is a mathematical coloring book that introduces the reader to basic group theory in a jargon-free manner by illustrating fundamental symmetries of visually appealing figures and patterns in the Euclidean plane. To further heighten the experience, a link to a digital version permits the readers to explore and enjoy the material in an interactive manner.

Berke illustrates cyclic, dihedral, frieze, and wallpaper groups through a series of black-and-white illustrations that the reader is invited to color (some of the details are rather small and coloring them will require a delicate hand). However, the explicit mathematical content does not delve much more deeply than the definitions and geometric realizations of a few classes of groups. The author poses some challenges regarding the more complicated images in the latter half of the book. These problems require a careful study of the corresponding images. For example, one asks “*t*here are 3 different 1/3 turn rotation points. Can you see them?”

Overall *Beautiful Symmetry* is a lighthearted and playful introduction to elementary group theory in the form of a coloring book. It is suitable for mathematically inclined coloring enthusiasts, inquisitive children, and adults in need of an intellectually stimulating diversion.